

Week	Lecture 1	Lecture 2	Slides	Reading
1	Overview, course introduction	Data Representation, C++ Syntax (statements, variables, expressions), Basic I/O	[Unit 0: Goodney]  [Unit 1: Goodney]	Chapter 1. Chapter 2: 2.1-2.4
2	Data Representation, C++ Syntax (statements, variables, expressions), Basic I/O	Control Structures	[Unit 2: Goodney]	Chapter 3
3	Control Structures	Functions, Parameter Passing Semantics (pass-by-value), the stack	[Unit 4: Goodney]	Chapter 4 Chapter 5.1-5.9
4	Arrays	C-strings, Passing Arrays to functions	[Unit 5: Goodney]	Chapter 6.1-6.6

5	Multidimensional arrays, images	Multidimensional arrays, images; Intro Pointers		
6	Pointers; Pass-by-reference	Pass-by-reference	[Unit 6: Goodney]	Chapter 7.1-7.6
7	Dynamic Memory	Midterm Review		
8	More dynamic allocation; Redirection and File I/O	Introduction to objects, C++ strings	[Unit 7: Goodney]	Chapter 7.7-7.8, 8.1-8.5
9	Structs and Classes	Algorithm and Time Complexity	[Unit 8b: Goodney] [Unit 9: Goodney] [Unit 10: Goodney]	Chapter 9.1-9.11
10	Linked Lists	STL Lists (Vectors and Deques)	[Unit 11: Goodney] [Unit 12: Goodney]	
11	Stringstreams & C++ References	Programming Midterm Practice	[Unit 13: Goodney] [Unit 14: Goodney]	

12	More streams; PA5 discussion	Doubly-linked lists	[Unit 15: doubly- linked lists]	
13	Recursion	Recursion	[Unit 8: Recursion]	
14	Recursion on data structures (linked-lists)	More on Recursion: generating all combinations	[Unit 16: RecursionC ombos]  [Unit 16: RecursionC ombos-alt]	
15	Schedule Slip, PA6 help	Final review	[Review: Goodney]	